

Claims

1. A rubber mixture containing one or more rubbers with in the range of 0.1 to 2 wt.% of bonded carboxyl groups or their salts and a glass transition temperature in the range from -120° to -50°C and one or more fillers in the range 10 to 500 parts by wt., with respect to 100 parts by wt. of rubber.
2. A rubber mixture according to Claim 1, characterised in that the rubber is built up from diolefins.
3. A process for preparing a rubber with in the range of 0.1 to 2 wt.% of bonded carboxyl groups, characterised in that, after polymerisation in solution, the rubber is reacted with carboxylmercaptans of the general formula (I)
- $$\text{HS-R}^1\text{-COOX} \quad (\text{I}),$$
- A
- in which
- R^1 represents a linear, branched or cyclic $\text{C}_1\text{-C}_{36}$ alkylene group, which may optionally be substituted with up to 3 further carboxyl groups, or which may be interrupted by nitrogen, oxygen or sulfur atoms, or a $\text{C}_6\text{-C}_{12}$ -arylene group
- and
- X represents hydrogen or a metal or ammonium ion,
- optionally in the presence of radical starters.

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4. Use of rubber mixtures according to Claim 1 to prepare moulded items of all types.
5. Use of rubber mixtures according to Claim 1 to produce tires.

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